

$$\begin{aligned}
\frac{d\sigma}{d\phi} = & F_{UU} + \cos(2\phi) F_{UU}^{\cos(2\phi)} + \frac{1}{Q} \cos \phi F_{UU}^{\cos \phi} + \lambda \frac{1}{Q} \sin \phi F_{LU}^{\sin \phi} \\
& + S_L \left\{ \sin(2\phi) F_{UL}^{\sin(2\phi)} + \frac{1}{Q} \sin \phi F_{UL}^{\sin \phi} + \lambda \left[F_{LL} + \frac{1}{Q} \cos \phi F_{LL}^{\cos \phi} \right] \right\} \\
& + S_T \left\{ \sin(\phi - \phi_S) F_{UT}^{\sin(\phi - \phi_S)} + \sin(\phi + \phi_S) F_{UT}^{\sin(\phi + \phi_S)} + \sin(3\phi - \phi_S) F_{UT}^{\sin(3\phi - \phi_S)} \right. \\
& + \frac{1}{Q} \left[\sin(2\phi - \phi_S) F_{UT}^{\sin(2\phi - \phi_S)} + \sin \phi_S F_{UT}^{\sin \phi_S} \right] \\
& \left. + \lambda \left[\cos(\phi - \phi_S) F_{LT}^{\cos(\phi - \phi_S)} + \frac{1}{Q} \left(\cos \phi_S F_{LT}^{\cos \phi_S} + \cos(2\phi - \phi_S) F_{LT}^{\cos(2\phi - \phi_S)} \right) \right] \right\}
\end{aligned}$$